

Figure 1

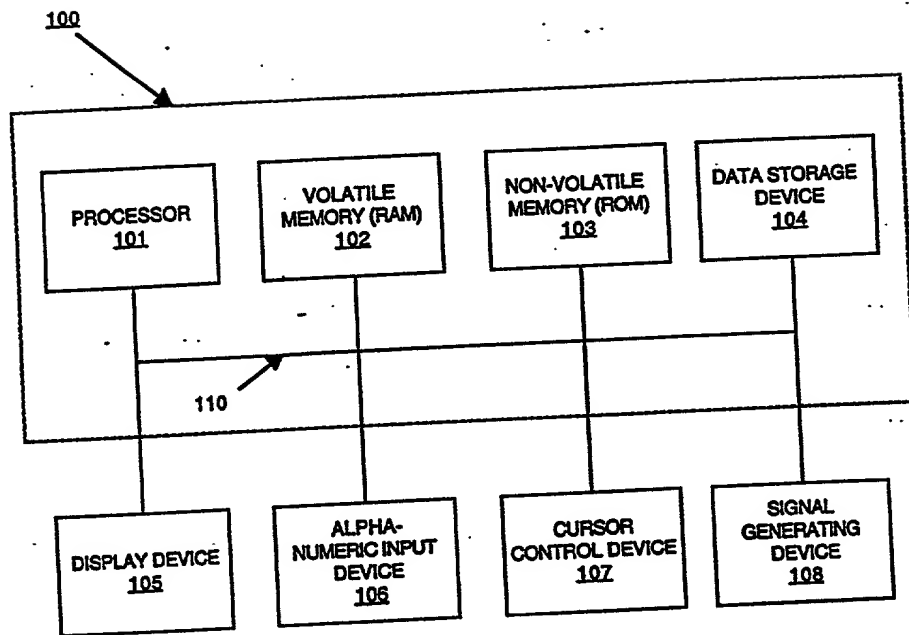


Figure 2

200

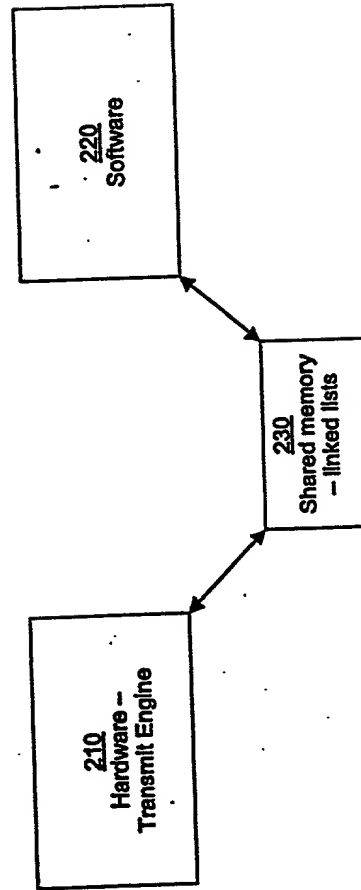


Figure 3A

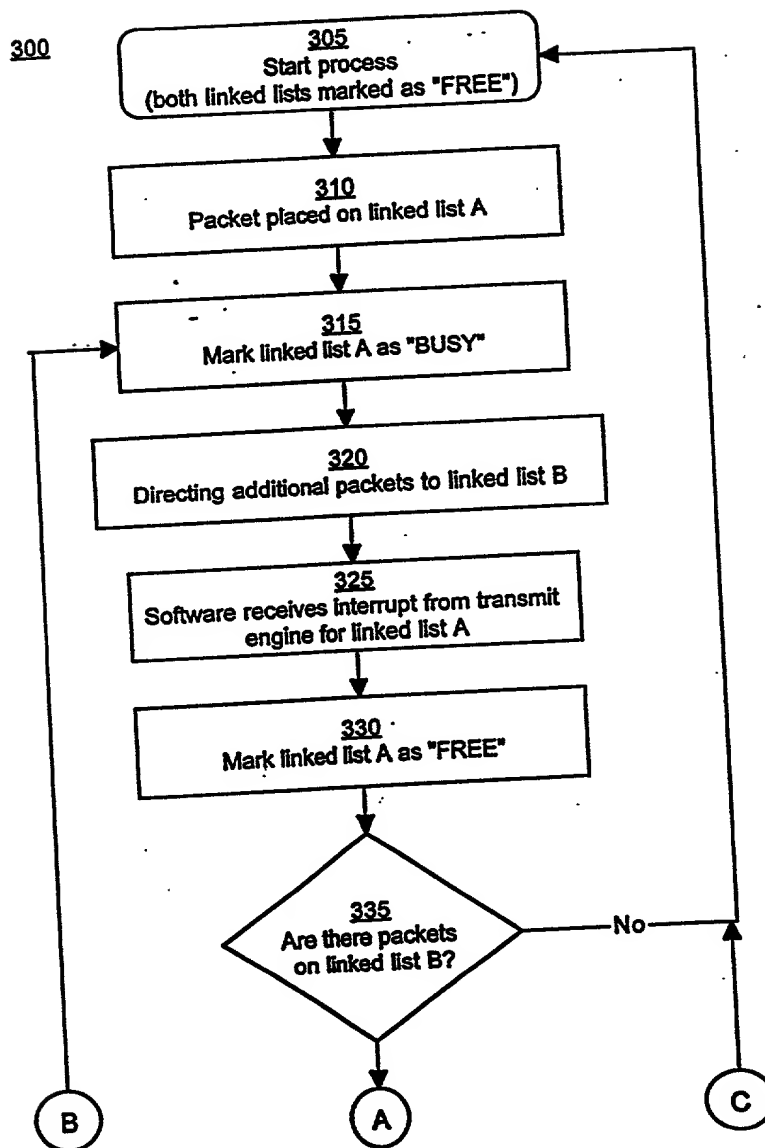


Figure 3B

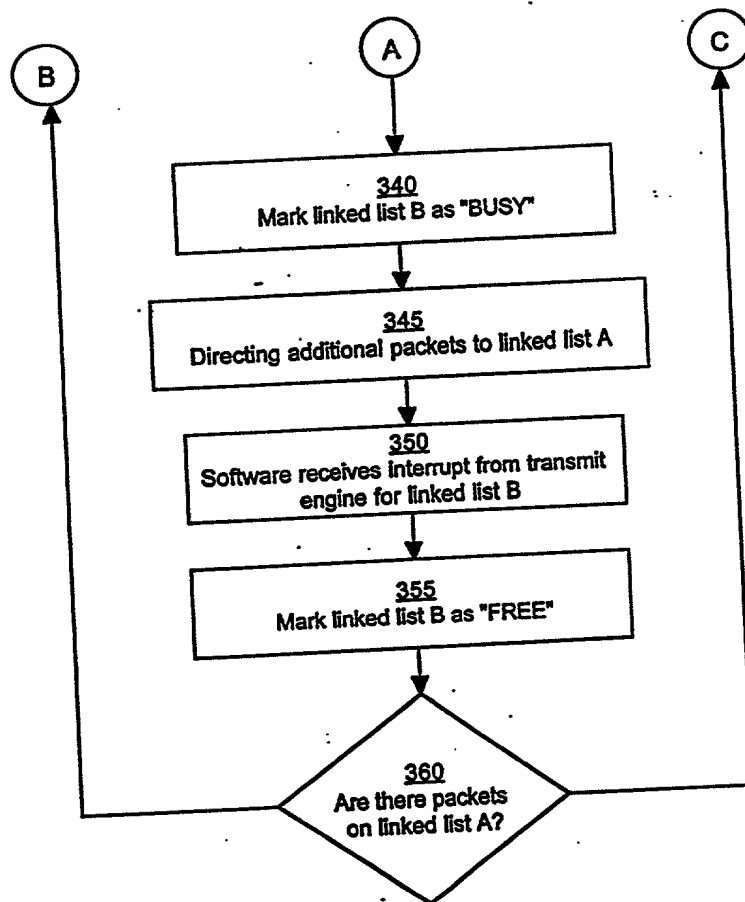


Figure 4A

INITIAL CONDITION

SOFTWARE LISTS

LIST A FREE



LIST B FREE



TRANSMIT ENGINE

FREE

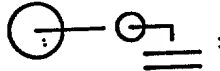
Figure 4B

AS FLOW CONTINUES

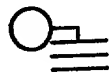
SOFTWARE SENDS ONE PACKET

SOFTWARE LISTS

LIST A BUSY



PROGRAM ADDRESS OF LIST A
LIST B FREE



TRANSMIT ENGINE

FREE

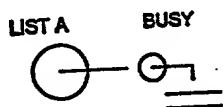
BUSY WITH LIST A

BUSY WITH LIST A

Figure 4C

TRANSMIT ENGINE WORKING ON LIST A, SOFTWARE WANTS TO SEND MORE PACKETS

SOFTWARE LISTS

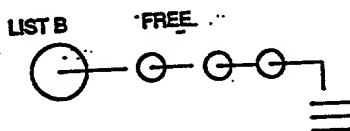


TRANSMIT ENGINE

BUSY WITH LIST A

SOFTWARE PUTS ALL PACKETS IN LIST B

BUSY WITH LIST A

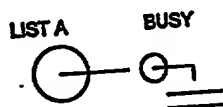


BUSY WITH LIST A

Figure 4D

HARDWARE ISSUES INTERRUPT FOR BUSY LIST

SOFTWARE LISTS



TRANSMIT ENGINE

INTERRUPT FOR LIST A

SOFTWARE MARKS LIST A AS FREE AND LIST B AS BUSY.

TRANSMIT ENGINE BUSY WITH LIST B

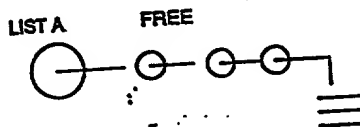
SOFTWARE PROGRAMS ADDRESS OF LIST B TO TRANSMIT ENGINE.

HARDWARE WORKING ON LIST B and SOFTWARE WANTS TO SEND MORE PACKETS
TRANSMIT ENGINE

SOFTWARE LISTS

TRANSMIT ENGINE

WORKING on LIST B



WORKING ON LIST B

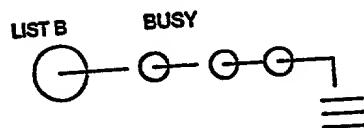


Figure 5

